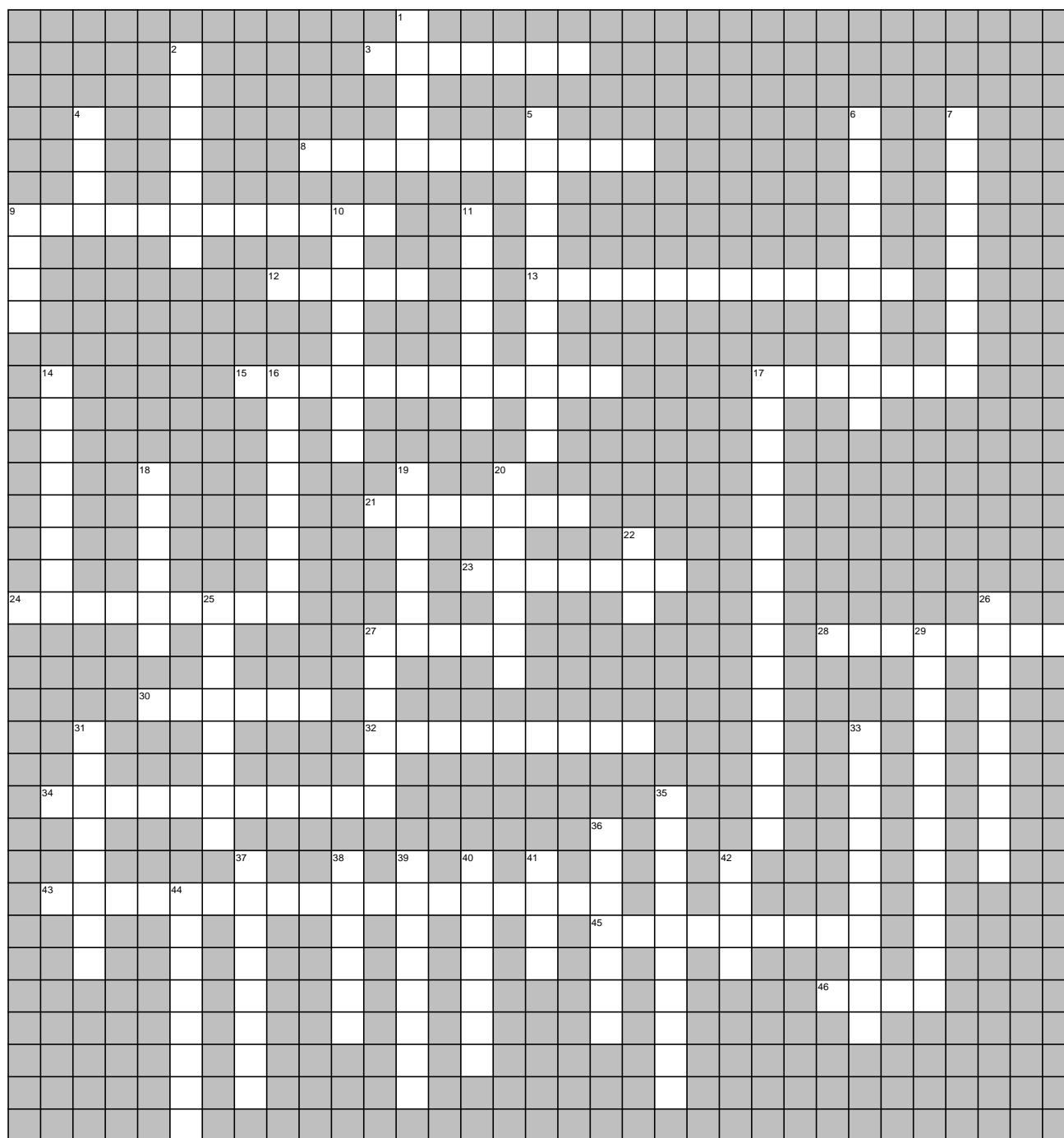


Aerospace Dimensions module 1

Jeffrey D. Morris, MAJ, CAP



EclipseCrossword.com

Across

- | | | | |
|-----|---|-----|--|
| 3. | A column of air that moves upward | 17. | The measurement of the amount of heat required to raise the temperature of one kilogram of water, one degree Celcius |
| 8. | The front part of an airfoil (two words) | 21. | A component that is specifically designed to produce lift, thrust or directional stability |
| 9. | The axis goes from the nose to tail of the plane | 23. | Natural force which pulls everything toward the center of the Earth |
| 12. | An object at rest will remain at rest unless acted upon by some outside force. This the <blank> Law of Motion | 24. | A combination of aeronautics and space |
| 13. | Relating to the forces of air in motion | 27. | The top of the hot air balloon's envelope |
| 15. | The flow of air which moves opposite the flight path of an airplane (two words) | 28. | This axis goes through the top of the plane and out through the bottom |

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Across

30. Son from the father and son pair that flew too close to the Sun
32. He discovered the relationship between pressure and fluids in motion (last name)
34. These French brothers created the first successful manned hot air balloon
43. That branch of general education concerned with communicating knowledge, skills and attitudes about aerospace (two words)
45. One of two men that made a flight over Paris on November 21, 1783 (last name)
46. One of several vertical panels that make up the envelope of a balloon
33. Instrument that measures the temperature at the top of a hot air balloon
35. Faster than the speed of sound
36. Another name for a balloon basket
37. Father from the father and son pair that flew too close to the Sun
38. He discovered gravity (last name)
39. To rise or float on the surface of water or within the atmosphere
40. This axis passes from wingtip to wingtip through the plane
41. Air in motion
42. The force which retards the forward movement of an aircraft in flight.
44. Slower than the speed of sound

Down

1. Dynamic lift is example of this Newton Law
2. Mass in a given volume
4. Distance from wingtip to wingtip
5. The science of flight within the atmosphere
6. Fluid motion between regions of unequal heating
7. Average rate at which temperature decreases with an increase in altitude (two words)
9. The formula $[CL \times R \times \frac{1}{2}V^2 \times A]$ describes this force of flight
10. Any machine that is capable of flying through the air.
11. One of two men that made a flight over Paris on November 21, 1783 (last name)
14. Height expressed in units above sea level, or ground level
16. Container that holds the hot air, the main body of a balloon
17. Point where the three axes come together (three words)
18. Force that pulls or pushes an airplane forward through the air and it opposes drag
19. A form of wooden construction used in baskets
20. The art of staying aloft by exploiting the energy of the atmosphere
22. A measure of heat (abbreviation)
25. The art, science and technology of flight within the atmosphere
26. Sailplane cadets use at the USAF Academy (name only)
27. The curved part of an airfoil that goes from leading to trailing edge
29. The back part of an airfoil
31. Part of the plane that disrupts airflow over the upper camber of the wing